Ontario

Ministry of Natural Resources

Hon. Alan W. Pope
Minister

John R. Sloan
Deputy Minister

ONTARIO GEOLOGICAL SURVEY

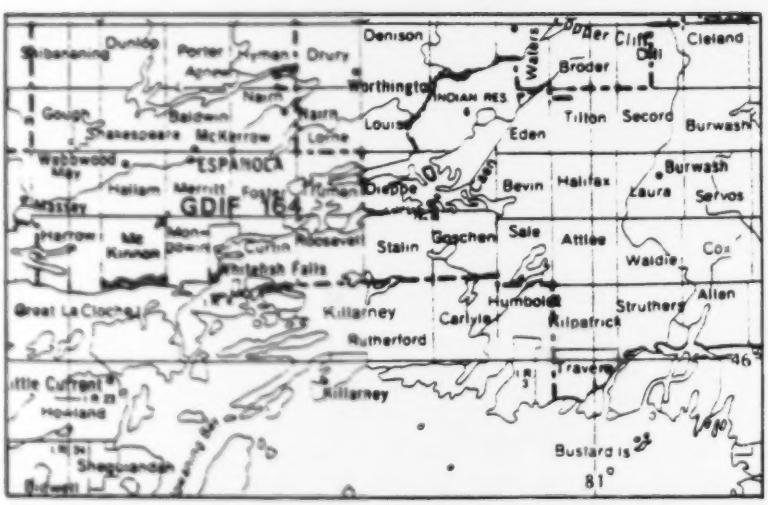
GEOLOGICAL DATA INVENTORY FOLIO

GDIF 164

McKINNON TOWNSHIP

DISTRICT OF SUDBURY

Compiled by the Staff of
the Resident Geologist's Office
Sudbury



LOCATION MAP

Scale 1:1 013 760 or 1 inch to 16 miles

85-6406/

NTS Number 41 I/4

Mining Claim Map Number M.1014

This project was funded by the Ontario Ministry of Northern Affairs through the Northern Ontario Geological Survey (NOGS) Program.

STATEMENT: This inventory is unedited. Discrepancies may occur for which the Ontario Geological Survey does not assume liability. Information from this source may be quoted if credit is given. Reference to this inventory should be made as follows:

Ontario Geological Survey
1984; McKinnon Township, Sudbury District; Ontario Geological Survey, Geological Data Inventory Folio 164, compiled by the staff of the Resident Geologist's office, Sudbury, 16 p. and 2 maps.

Original Compilation by: Adlington, Richard February 7th, 1984

Date	Page Revised	Revised by

Date	Page Revised	Revised by

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ACCOMPANYING MAPS

Property Location Map - 1 map

Exploration Data Map - 1 map

Map Scale 1: 31 680 or 1 inch to ½ mile

CONVERSION FACTORS FOR MEASUREMENTS IN ONTARIO GEOLOGICAL SURVEY PUBLICATIONS

If the reader wishes to convert imperial units to SI (metric) units or SI units to imperial units the following multipliers should be used:

CONVERSION FROM SI TO IMPERIAL			CONVERSION FROM IMPERIAL TO SI		
SI Unit	*Multiplied by*	*Gives*	*Imperial Unit*	*Multiplied by*	*Gives*
			LENGTH		
1 mm	0.039 37	inches	1 inch	**25.4**	mm
1 cm	0.393 70	inches	1 inch	**2.54**	cm
1 m	3.280 84	feet	1 foot	**0.304 8**	m
1 m	0.049 709 7	chains	1 chain	20.116 8	m
1 km	0.621 371	miles (statute)	1 mile (statute)	**1.609 344**	km
			AREA		
1 cm^2	0.155 0	square inches	1 square inch	**6.451 6**	cm^2
1 m^2	10.763 9	square feet	1 square foot	**0.092 903 04**	m^2
1 km^2	0.386 10	square miles	1 square mile	2.589 988	km^2
1 ha	2.471 054	acres	1 acre	0.404 685 6	ha
			VOLUME		
1 cm^3	0.061 02	cubic inches	1 cubic inch	**16.387 064**	cm^3
1 m^3	35.314 7	cubic feet	1 cubic foot	0.028 316 85	m^3
1 m^3	1.308 0	cubic yards	1 cubic yard	0.764 555	m^3
			CAPACITY		
1 L	1.759 755	pints	1 pint	0.568 261	L
1 L	0.879 877	quarts	1 quart	1.136 522	L
1 L	0.219 969	gallons	1 gallon	**4.546 090**	L
			MASS		
1 g	0.035 273 96	ounces (avdp)	1 ounce (avdp)	28.349 523	g
1 g	0.032 150 75	ounces (troy)	1 ounce (troy)	**31.103 476 8**	g
1 kg	2.204 62	pounds (avdp)	1 pound (avdp)	**0.453 592 37**	kg
1 kg	0.001 102 3	tons (short)	1 ton (short)	**907.184 74**	kg
1 t	1.102 311	tons (short)	1 ton (short)	**0.907 184 74**	t
1 kg	0.000 984 21	tons (long)	1 ton (long)	**1016.046 908 8**	kg
1 t	0.984 206 5	tons (long)	1 ton (long)	**1.016 046 908 8**	t
			CONCENTRATION		
1 g/t	0.029 166 6	ounce (troy)/ ton (short)	1 ounce (troy)/ ton (short)	34.285 714 2	g/t
1 g/t	0.583 333 33	pennyweights/ ton (short)	1 pennyweight/ ton (short)	1.714 285 7	g/t

OTHER USEFUL CONVERSION FACTORS

1 ounce (troy)/ton (short)	20.0	pennyweights/ton (short)
1 pennyweight/ton (short)	0.05	ounce (troy)/ton (short)

One gram(g) per tonne is equivalent to one part per million (1 ppm).

NOTE–Conversion factors which are in bold type are exact. The conversion factors have been taken from or have been derived from factors given in the Metric Practice Guide for the Canadian Mining and Metallurgical Industries published by The Mining Association of Canada in co-operation with the Coal Association of Canada.

DATA SOURCES CHECK LIST

NOTE: The following sources have been searched to compile the data for this area. If no reference data was found the appropriate box is marked 'no'; if reference data was found, the box is marked 'yes'.

All reference data found are included in the following pages. If the box is blank, the data source has not yet been searched. If the box is marked N.A., the source item is Not Applicable to this area and therefore not searched.

	SOURCES OF DATA	Data	Initial
1	Resident Geologist's Office Files	YES	R.A.
2	Assessment Files Research Office, Toronto	N/A	R.A.
3	ODM General Index; 7 volumes	YES	R.A.
4	Catalogue of Airborne Geophysical Surveys (ODM)	NO	R.A.
5	ODM Mineral Resources Circulars and OGS Mineral Deposits Circulars	YES	R.A.
6	ODM Industrial Mineral Reports	NO	R.A.
7	Bibliography of Post Precambrian Theses - Karrow (ODM MP 1)	NO	R.A.
8	Bibliography of Precambrian Theses - Ginn (ODM MP 2)	YES	R.A.
9	Newspaper Clippings File	YES	R.A.
10	GSC Index to Publications	YES	R.A.
11	OGS Index to Published Maps and Reports - MP 77 and Supplements to MP 77	YES	R.A.
12	OGS Index Maps	YES	R.A.
13	Source Mineral Deposit Records (O.G.S.) Mineral Occurrences File	YES	R.A.
14	Author - Subject Articles File	YES	R.A.
15	Miscellaneous Papers: ODM & OGS	YES	R.A.
16	ODM Geological Circulars: OGS Study Series	NO	R.A.
17	ODM Preliminary Reports: ODM Bulletins	NO	R.A.
18	ODM – OGS Open File Reports	YES	R.A.
19	OGS Northern Ontario Engineering Geology Terrain Studies	YES	R.A.
20	OGS Aggregate Resources Inventory Papers	NO	R.A.
21	OGS Mineral Potential Maps	YES	R.A.
22	Theses on File, Sudbury	YES	R.A.
23	Aerial Photographs on File, Sudbury	YES	R.A.

METALS AND MINERALS REFERENCES LIST

△ anh. . . . . Anhydrite	△ fu. . . . . Fuchsite	△ Ni. . . . . Nickel	△ st. . . . . Stone
△ ank. . . . . Ankerite	△ gn. . . . . Galena	△ Nb . . . . . Niobium	△ talc. . . . . Talc
△ anna . . . . . Annabergite	△ gt. . . . . Garnet	△ Pd . . . . . Palladium	△ Te . . . . . Tellurium
△ ap. . . . . Apatite	△ goe . . . . . Goethite	△ peat . . . . . Peat	△ td. . . . . Tetrahedrite
△ arg . . . . . Argentite	▲ Au . . . . . Gold	△ pent . . . . . Pentlandite	△ th. . . . . Thorite
△ As . . . . . Arsenic	△ gf. . . . . Graphite	△ Pt. . . . . Platinum	△ Th . . . . . Thorium
▲ asp . . . . . Arsenopyrite	△ gl . . . . . Gravel	▲ py . . . . . Pyrite	△ thuc . . . . . Thucholite
△ asb . . . . . Asbestos	△ gyp. . . . . Gypsum	△ pyl . . . . . Pyrochlore	△ ti . . . . . Titanite
△ ba. . . . . Barite	△ hem . . . . . Hematite	△ pyrl . . . . . Pyrolusite	△ Ti. . . . . Titanium
△ be. . . . . Beryl	△ il . . . . . Ilmenite	△ po . . . . . Pyrrhotite	△ tour . . . . . Tourmaline
△ Bi. . . . . Bismuth	△ Fe . . . . . Iron	△ q . . . . . Quartz	△ trap . . . . . Trap rock
▲ bn . . . . . Bornite	△ IF. . . . . Iron Formation	△ qcv . . . . . Quartz carbonate vein	△ W. . . . . Tungsten
△ bran . . . . . Brannerite	△ jas . . . . . Jasper	△ ra. . . . . Radioactive minerals	△ uran . . . . . Uraninite
△ bruc . . . . . Brucite	△ kaol . . . . . Kaolinite (kaolin)	△ RE . . . . . Rare Earths	△ U . . . . . Uranium
△ Cd . . . . . Cadmium	△ ky . . . . . Kyanite	△ sd. . . . . Sand	△ verm . . . . . Vermiculite
△ calc. . . . . Calcite	△ Pb . . . . . Lead	△ sgl . . . . . Sand and gravel	△ Y . . . . . Yttrium
△ carb . . . . . Carbonate	△ lim . . . . . Limonite	△ ss . . . . . Sandstone	△ Zn . . . . . Zinc
△ cel . . . . . Celestite	△ Li. . . . . Lithium	△ scap . . . . . Scapolite	△ zr. . . . . Zircon
△ cc. . . . . Chalcocite	△ mgst . . . . . Magnesite	△ shee . . . . . Scheelite	
▲ cp. . . . . Chalcopyrite	▲ mag . . . . . Magnetite	△ serp . . . . . Serpentine	
△ ch. . . . . Chert	△ mc . . . . . Malachite	△ sh. . . . . Shale	
△ clay . . . . . Clay	△ Mn . . . . . Manganese	△ sid . . . . . Siderite	
△ Co . . . . . Cobalt	△ mb . . . . . Marble	△ si . . . . . Silica	
△ cob. . . . . Cobaltite	△ mar. . . . . Marcasite	△ Ag . . . . . Silver	
△ cb. . . . . Columbite	△ ma . . . . . Marl	△ sl . . . . . Slate	
△ Cu . . . . . Copper	△ mi . . . . . Mica	△ sm . . . . . Smaltite	
△ cor . . . . . Corundum	△ ml . . . . . Millerite	△ sod . . . . . Sodalite	
△ dol . . . . . Dolomite	△ mo . . . . . Molybdenite	△ spec . . . . . Specularite	
△ ep. . . . . Epidote	△ Mo . . . . . Molybdenum	△ sp. . . . . Sphalerite	
△ ery . . . . . Erythrite	△ mon . . . . . Monazite	△ spd . . . . . Spodumene	
△ fel . . . . . Feldspar	△ ne. . . . . Nephelite (nepheline)	△ staur . . . . . Staurolite	
△ fl . . . . . Fluorite (flurospar)	△ nc. . . . . Niccolite	△ stib. . . . . Stibnite	

Solid triangles indicate metal and mineral occurrences shown on the accompanying maps.

MCKINNON TOWNSHIP

MINERAL OCCURRENCES

Map Ref. Letter	Name(s)	Mineralization	Source Mineral Deposit Record	References in OGS Mineral Deposits Circulars & OGS Industrial Mineral Reports	Additional References and/or Remarks
A	Bob Tough Gold Mine	cp,asp, Au	Au 7	MDC 18, p.73	
B	Bob Tough Gold Mines	py	--	---	O.D.M. Map p.794
C	Bob Tough Gold Mines	py, Au	Au 7	MDC 18, p.73	

GDIF FORM NO. 1

TYPE OF WORK		Numbers below represent the year in which the work was done; e.g., 68 for 1968.																		
EXPLORATION DATA filed at the RESIDENT GEOLOGIST'S OFFICE SUDBURY		GEOLOGICAL	GEOCHEMICAL	TRENCHING, STRIPPING	DRILLING	ASSAY DATA	UNDERGROUND WORK	PROSPECTUS, NOTES, CORRESPONDENCE	AIRBORNE MAGNETOMETER	AIRBORNE ELECTROMAGNETIC	AIRBORNE RADIOMETRIC	GROUND MAGNETOMETER	GROUND ELECTROMAGNETIC	GROUND RADIOMETRIC	INDUCED POLARIZATON	SELF POTENTIAL	RESISTIVITY	SHAFT SINKING		
	COMPANY/AUTHOR (file number)																			
1	Bob Tough Gold Mines Ltd. (Evangeline-Moose Lake Property)	34		33	34	34	35 36	34										34 35		
2	Day B. (Evangeline Lake Property)				54 57 59															
3	Kilembe Copper Cobalt Co. Ltd.	75[1]										75[1]	75[1]							
4	L.O.C.C. Exploration Co. Ltd. (Evangeline Lake Property)	81				79						80	80							
5	Mongowin-Sudbury Explorations Ltd. (Hibiscus Developments Ltd., Burns,I.)					76						75	75							
6	Noranda Exploration Co. Ltd.											75	75?[1]							
	[1]No Data																			

GDIF FORM NO. 2

DRILLHOLE SUMMARY

Map Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth Degrees	Initial Dip of Hole Degrees	Thickness of Overburden Feet	Total Length of Hole Feet	Mineralization Noted in Log	Assay Data Included for
1	Bob Tough Gold Mines	1	1934	S23E	?	?	?	?	?
2		2	1934	S22E	?	?	?	?	?
3		3	1934	S5W	?	?	?	?	?
4		4	1934	N45W	?	?	254?	?	Au
5		5	1934	S	?	?	?	?	?
5a		6	1934	S	?	?	225?	?	Au
5b		7	1934	S	?	?	?	?	?
6	Day, B.	1	1954	N	45	0	100	py	-
6a		2	1954	N	45	0	100	py	-
6b		3	1954	N	45	0	100	-	-
6c		4	1954	N	45	0	104	-	-
6d		5	1954	N	45	0	100	-	-
6e		6	1954	S	45	0	100	-	-
7		C1	1957	N10W	45	0	281	py, asp	-
8		C2	1957	S10E	60	0	281	py	-
9		1	1959	S30E	50	1	331	py,cp,bn	-
9a		2	1959	S	45	0	232	py, asp	-
10	Mongowin-Sudbury Explorations	M-76-4	1976	180	47	30	339	py, mag	-

GDIF FORM NO. 3

AIRBORNE GEOPHYSICAL SURVEY DATA

No.	By For	Type of Survey	Flight Altitude	Flight Line Direction	Flight Line Spacing

GDLF FORM NO. 4

Map Sample Site Reference Number	GEOCHEMICAL SURVEY DATA		By	Reference
	Type of Survey	Analysis For		

GDIF FORM NO.5

McKINNON TOWNSHIP

MISCELLANEOUS DATA

AGE DATING

Site	Method	Material	Reference	Result

NEWSPAPER CLIPPINGS FILE

NOTE: A file of newspaper clippings about the companies listed below, who have worked in this area, is maintained in the Regional/Resident Geologist's Office.

KILLEMBE COPPER COBALT LTD.

Northern Miner February 5th, 1976

Northern Miner October 14th, 1976

ODM GENERAL INDEX SEARCH

Words searched:

BOB TOUGH GOLD MINES
DAY, B.
EVANGELINE LAKE
McKINNON TP.
MOOSE LAKE

Index Volume	Listing:	Report Volume	Part	Page
3	BOB TOUGH GOLD MINES LTD.			
	Capital; officers; operations			
	(1934)	44	1	73
	(1935)	45	1	83,84
	Claims, McKinnon tp., mineralization and workings	44	7	61
	Incorporated	43	1	39
3	BOB TOUGH GOLD MINES (1936) LTD.			
	Incorporated	46	1	59
3	EVANGELINE LAKE, McKinnon tp.			
	Copper mg. near	38	7	47
	Gold Claims on	44	7	61
3	McKINNON TP., Sud.			
	Mining Claims	38	7	47,48
	See also Bob Tough Gold Mines			
3	MOOSE LAKE, McKinnon tp.			
	See Evangeline 1.			

GDIF FORM NO. 8

ODM GENERAL INDEX SEARCH

Words searched:

Index Volume	Listing:	Report Volume	Part	Page

GDIF FORM NO. 8

McKINNON TOWNSHIP

SELECTED REFERENCES

Author	Date	Title	Reference	Map Scales and/or Report Pages
		GEOCHEMICAL		
		No Data Available, Feb. 7, 1984		
		GEOLOGICAL REPORTS AND MAPS		
Card, K. D.	1975	Geology of the Panache Lake Area, Dist. of Sudbury and Manitoulin	O.F.R. 5123	
	1976	Espanola-Whitefish Falls Area, District of Sudbury, Ont.	O.D.M. GR131	
	1976	McGregor Bay-Bay of Islands, Districts of Sudbury and Manitoulin	O.D.M. GR138 O.D.M. Maps 2316 2317 2318	 1"=½ mile 1"=½ mile 1"=½ mile
	1978	Sudbury-Manitoulin Area, Districts of Sudbury and Manitoulin	O.D.M. GR166 O.D.M. Map 2360	 1"=2 miles
Card, K. D., Innes, D. G. and Debicki, R. L.	1974	Stratigraphy, Sedimentology, Huronian Supergroup of Sudbury-Espanola Area	OFR 5107	
Card, K. D., Palonen, P., Fox, J.	1968	Bay of Islands-McGregor Bay Area McGregor Bay Sheet (West Half)	O.D.M. Map P.442	1"=½ mile
Gordon, J. B., et al	1979	Gold Deposits of Ontario, Part 2	O.D.M. M.D.C.18	p.73
Kindle, E. D.	1936	Gold Occurrences of Ontario East of Lake Superior	G.S.C. Mem.192	

SELECTED REFERENCES

Author	Date	Title	Reference	Map Scales and/or Report Pages
Moore, E. S.	1929	Ore Deposits Near The North Shore of Lake Huron	O.D.M. AR38, pt.7	pp.39-46
O.G.S. & Mineral Resources Branch	1982	Mineral Potential Map of Ontario Southern Sheet Magnetic Compilation Map Geological Compilation Map 2197	O.F.R. 5328	1"=16 miles 1"=16 miles 1"=16 miles
Robertson, J.A., Siemiatkowska, K.M., Cape, D.F.	1972	McKinnon Township	O.D.M. Map p.794	1"=¼ mile
Rickaby, H. C.	1935	Notes on Mongowin Township and Vicinity	O.D.M. AR44, pt.7	p.61
Roscoe, S. M.	1969	Huronian Rocks and Uraniferous Conglomerates	G.S.C. Paper 68-40	205 p.
Springer, J.	1977	Ontario Mineral Potential, Northern Part of Sheet and Part of North Bay Sheet	O.G.S. Map P.1512	1:250,000
Yundt, S. E., et al	1983	Industrial Minerals of Ontario	O.G.S. Map P.2591	1:500,000
		JOURNALS, ARTICLES, THESES, TECHNICAL REPORTS		
Casshyap, S. M.	1966	Sedimentary Petrography of the Stratigraphy of the Huronian Rocks, South of Espanola, Ontario Pts. 1 and 2, Ph.D. Western	Sudbury Theses File No.2	
Chandler, F. W. Young G.M. Wood, J.	1969	Diaspore in Early Proterozoic Quartzites (Lorrain Formation) of Ontario	Can.J. Earth Sci Vol. 6	pp.337-346
Long, D. G. F.	1978	Depositional Environments of a thick Proterozoic sandstone; the (Huronian) Mississagi Formation of Ontario, Canada.	Can. J. Earth Sci., Vol.15	pp.190-206

GDIF FORM NO.9

SELECTED REFERENCES

Author	Date	Title	Reference	Map Scales and/or Report Pages
Lindsay, D. A.	1969	Glacial Sedimentology of the Precambrian Gowganda Formation, Ontario, Canada	Geol. Soc. Am. Bull.,80	pp.1685-1702
McLennan, S. M.,Fryer, B.J. Yound, G.M.	1979	The geo-chemistry of the carbonate-rich Espanola Formation (Huronian) with emphasis on rare earth elements	Can. J. Earth Sci., Vol.15	pp.230-239
Palonen, P. A.	1971	Stratigraphy and Deformational Environment of the Mississagi Fm., Ont. M.Sc., Calgary	Sudbury Theses File No.18	
Quirke, T. T.	1915	Geology of Espanola District, Ontario, Ph.D., UC.	MP2	p.38
Schenk, P. E.	1965	Depositional Environment of the Gowganda Formation (Precambrian) at the south end of Lake Timagami, Ontario	J. Sed. Pet., Vol.135	pp.309-318
Siemiatowska, K. M.	1970	Bibliography of Huronian Geology Covering the Region from Sault Ste. Marie to the Grenville Front.	Sudbury Theses File	
Thachuk, N. M.	1960	The Origin of the Gowganda Banded Argillite. B.A.Sc., U.T.	MP2	p.44
Wright, J. D.	1935	The Age of Some Granite Batholiths North of Lake Huron and the Genetic Relations of the Arsenical Gold Ores to the Keweenawan Granites. Ph.D., UT.	MP2	p.48
Young, G. M.	1973	Origin of the carbonate-rich Early Proterozoic Espanola Formation, Ontario, Canada.	Geol. Soc. Am. Bull., Vol.84	p.135-160
	1981	The Early Proterozoic Gowganda Formation, Ontario Canada	Earth's Pre-Pleistocene Glacial Record. Cambridge University Press.	pp.807-812

GDIF FORM NO.9

SELECTED REFERENCES

Author	Date	Title	Reference	Map Scales and/or Report Pages
		REGIONAL GEOLOGICAL COMPILATION MAPS		
Card, K. D.	1971	Panache Lake Area, West Part	O.D.M. Map P.668	1"=1 mile
	1978	Sudbury-Manitoulin Area	O.G.S. Map 2360	1"=2 miles
Card, K. D., & Lumbers, S. B.	1974,75	Sudbury-Cobalt	O.G.S. Map 2361	1"=4 miles
Thomson, J. E.	1961,68	Espanola Sheet	O.D.M. Map P.105	1"=2 miles
		GEOPHYSICAL MAPS		
O.D.M. - G.S.C.		Aeromagnetic maps		
	1965	Whitefish Falls	1522G	1"=1 mile
O.D.M.	1952	McKinnon Township	Sudbury File No.A-65	1"=¼ miles
O.D.M.-G.S.C.	1965	Sudbury, Ontario	7067G	1"=4 miles
O.G.S.	1976	Uranium Reconnaissance Program Airborne Gamma Ray Spectrometer Survey. Geophysical Series	Map P.1610	1:250,000
		SURFICIAL, PLEISTOCENE, TERRAIN ENGINEERING		
Dept. of Energy, Surveys & Mapping Branch	1975	Topographic Map, Whitefish Falls		1:50,000
Gartner, J.F.	1978	N.O.E.G.T.S. Data Base Map, Espanola		1:100,000
	1980	N.O.E.G.T. Study 99, Espanola Area		
		MINERAL POTENTIAL MAPS		
Springer, J.	1977	Ontario Mineral Potential, Northern Part of Sudbury Sheet and Part of North Bay Sheet	O.G.S. Map P.1512	1:250,000

GDIF FORM NO.9

NOTES AND ADDENDA

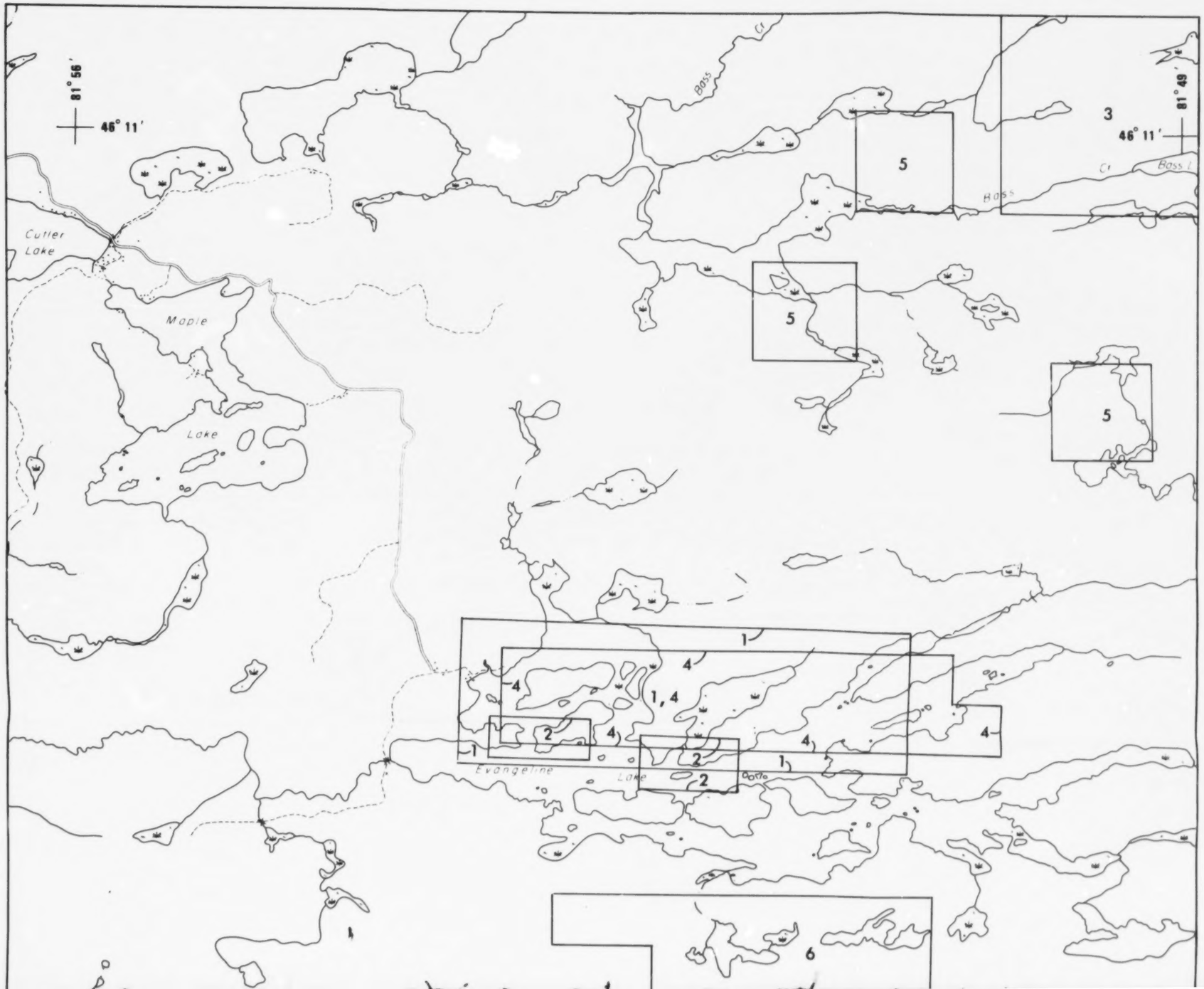
AERIAL PHOTOGRAPHS INDEX

Scale 1"=¼ mile

YEAR	ROLL	LINE	NUMBERS
1959	16	4608	142-145
	54	4608	116
	16	4607	105-110
	23	4607	2
	16	4606	30-35
	22	4604	92-98
1946	10	169	4-10
	9	170	6-12
	9	171	5-11
	244	172A	6-12
	8	173	5-12

The only information concerning Kilembe Copper Cobalt Co. is contained in an newspaper clipping. Their area of work in McKinnon Township is assumed to be adjacent to the Mongowin pluton of Mongowin Township.

GDIF FORM NO.10



Ontario

Ministry of Natural Resources

Hon. A
Ministe
John
Deputy

ONTARIO GEOLOGICAL SUR

PROPERTY LOCATION M

GEOLOGICAL DATA INVENTORY

(Map 1 of 2)

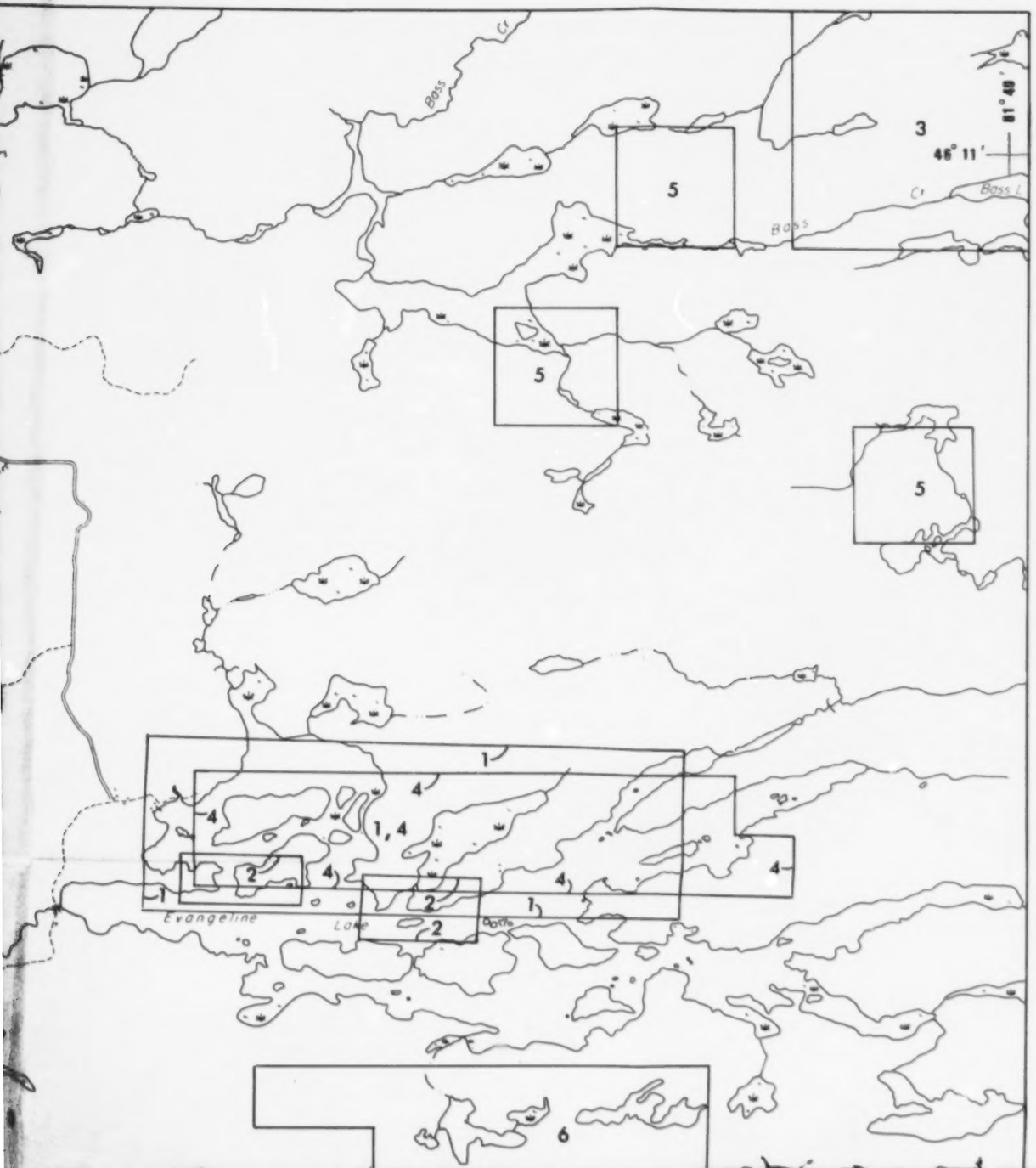
McKINNON TOV

DISTRICT OF SUDBUR

Scale 1:31 680

Mile 0.5 0 0.5

Kilometre 0.5 0 0.5



Ministry of Natural Resources
Ontario

Hon. Alan W. Pope
Minister

John R. Sloan
Deputy Minister

ONTARIO GEOLOGICAL SURVEY

PROPERTY LOCATION MAP

GEOLOGICAL DATA INVENTORY FOLIO 164

(Map 1 of 2)

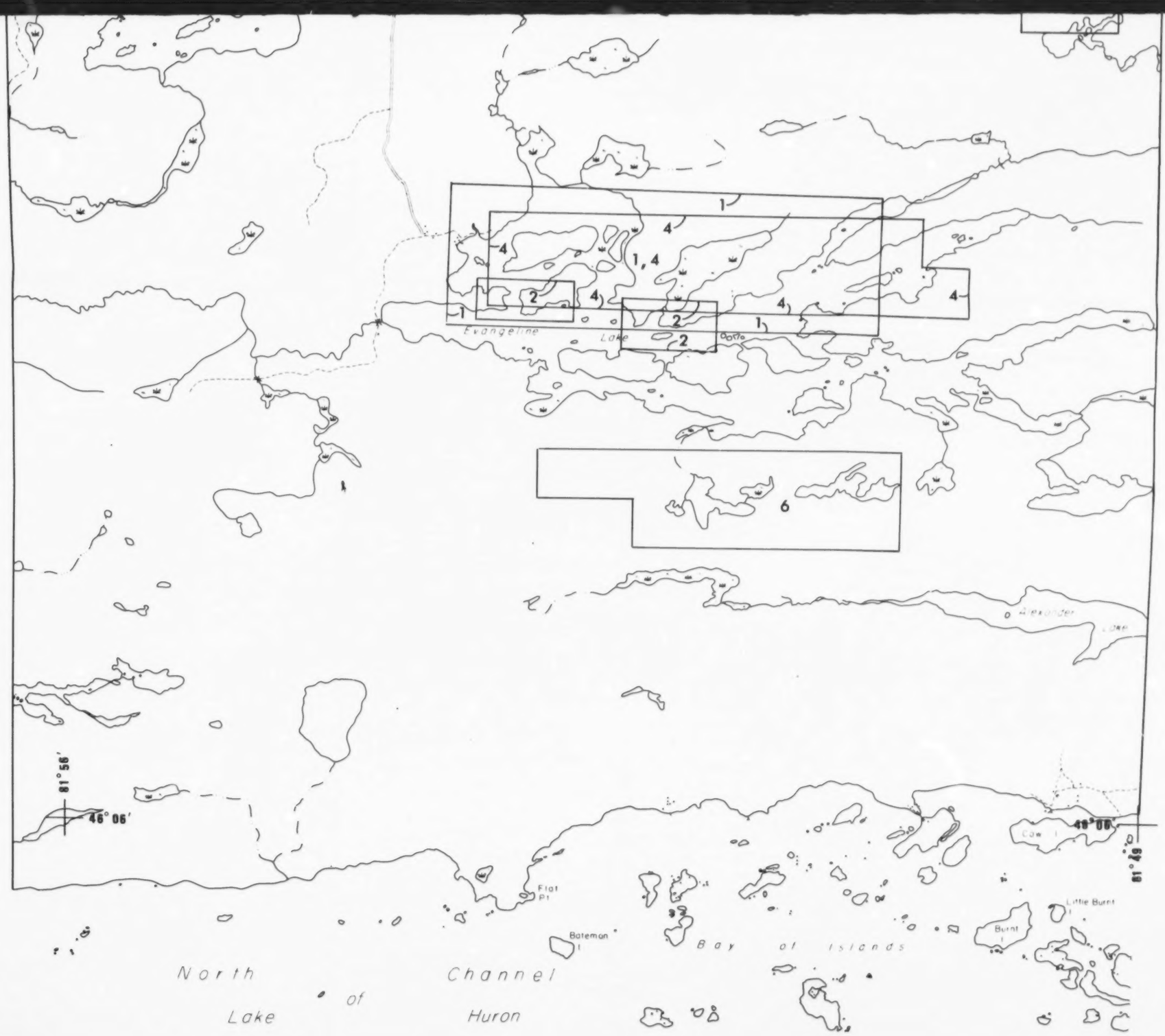
McKINNON TOWNSHIP

DISTRICT OF SUDBURY

Scale 1:31 680

Mile 0.5 0 0.5 1 Mile

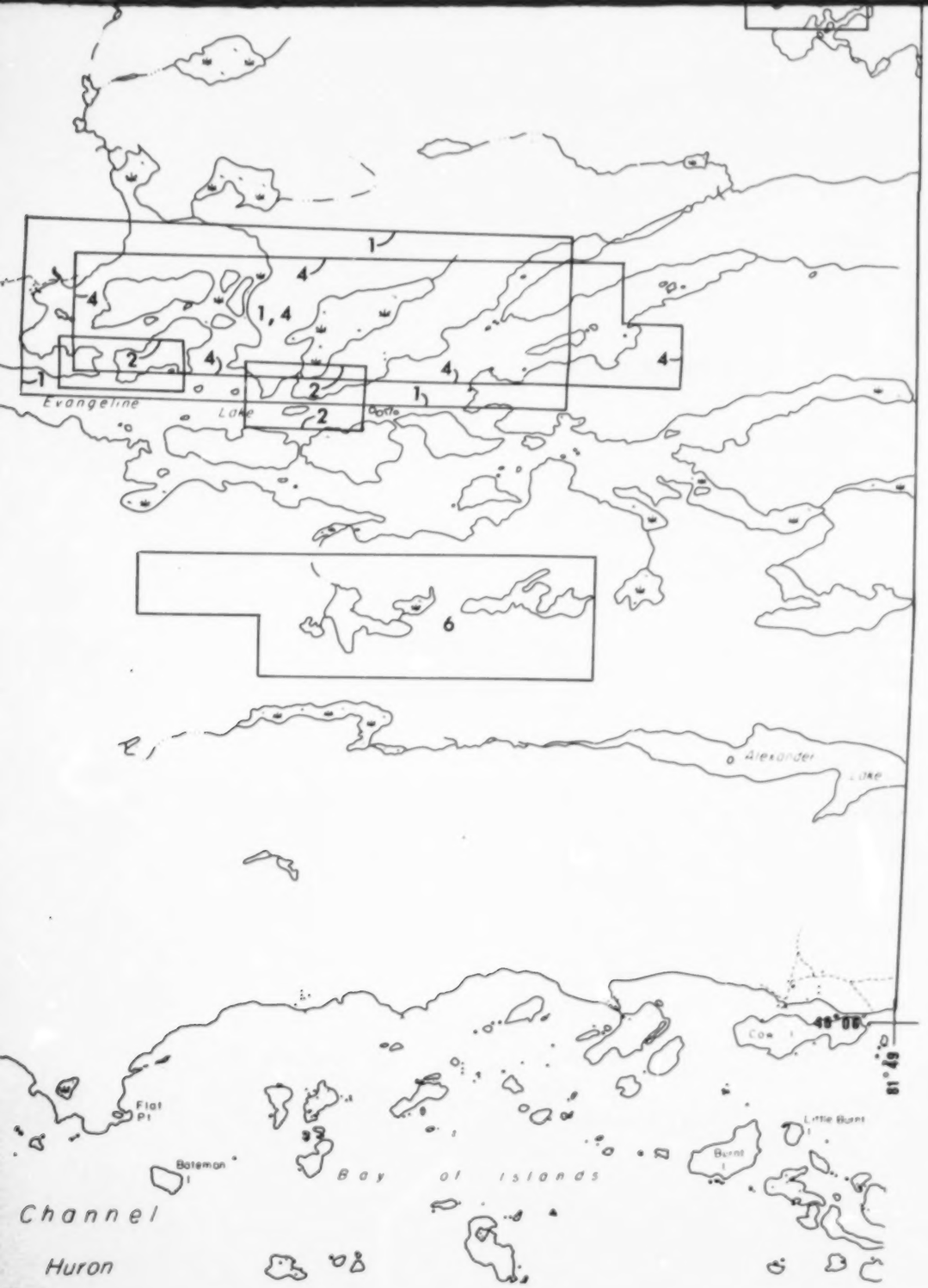
Kilometre 0.5 0 0.5 1 Kilometre



EXPLORATION D

Reference number is a
See listing in text page

Small area of explorat



EXPLORATION DATA FILE AREAS

Reference number is always inside work area outlined.
See listing in text pages.

Small area of exploration.

DRILL HOLES

- Location of single drill hole, with reference number
- Location of closely spaced group of drill holes, with reference number
- Drill hole, exact location uncertain, with reference number.
- Property with underground drill holes in this general area, with reference number
- Property with drill holes which have not been plotted on map, with reference number
- Reverse Circulation Drill Hole; Churn drilling, with reference number

GEOCHEMICAL AND GEOCHRONOLOGICAL DATA

- Geochemical sample site, with reference number
- Area of geochemical sampling, with reference number
- Age dating material sampling site, with reference number

GEOPHYSICAL ANOMALIES

- Airborne Magnetometer Anomaly
- Airborne Electromagnetometer Anomaly Length of anomaly along flight line
- Airborne Electromagnetometer Anomaly. Location of anomaly along flight line
- Airborne Electromagnetometer Anomaly Conductor Axis: definite, probable, possible
- Airborne Radiometric Anomaly
- Ground Magnetometer Anomaly
- Ground Electromagnetometer Anomaly (VL - Vertical Loop; HL - Horizontal Loop; VLF - Very low freq; Turam; JEM - Crone EM - 16)
- Ground Radiometric Anomaly
- Induced Polarization Anomaly
- Self Potential Anomaly
- Audio-frequency magnetometer anomaly

Ministry of Natural Resources
Ontario

Hon. Alan W. Pope
Minister

John R. Sloan
Deputy Minister

ONTARIO GEOLOGICAL SURVEY

EXPLORATION DATA MAP

GEOLOGICAL DATA INVENTORY FOLIO 164

(Map **2** of **2**)

McKINNON TOWNSHIP

DISTRICT OF SUDBURY

Scale 1:31 680

Mile 0.5 0 0.5 1 Mile

Kilometre 0.5 0 0.5 1 Kilometre

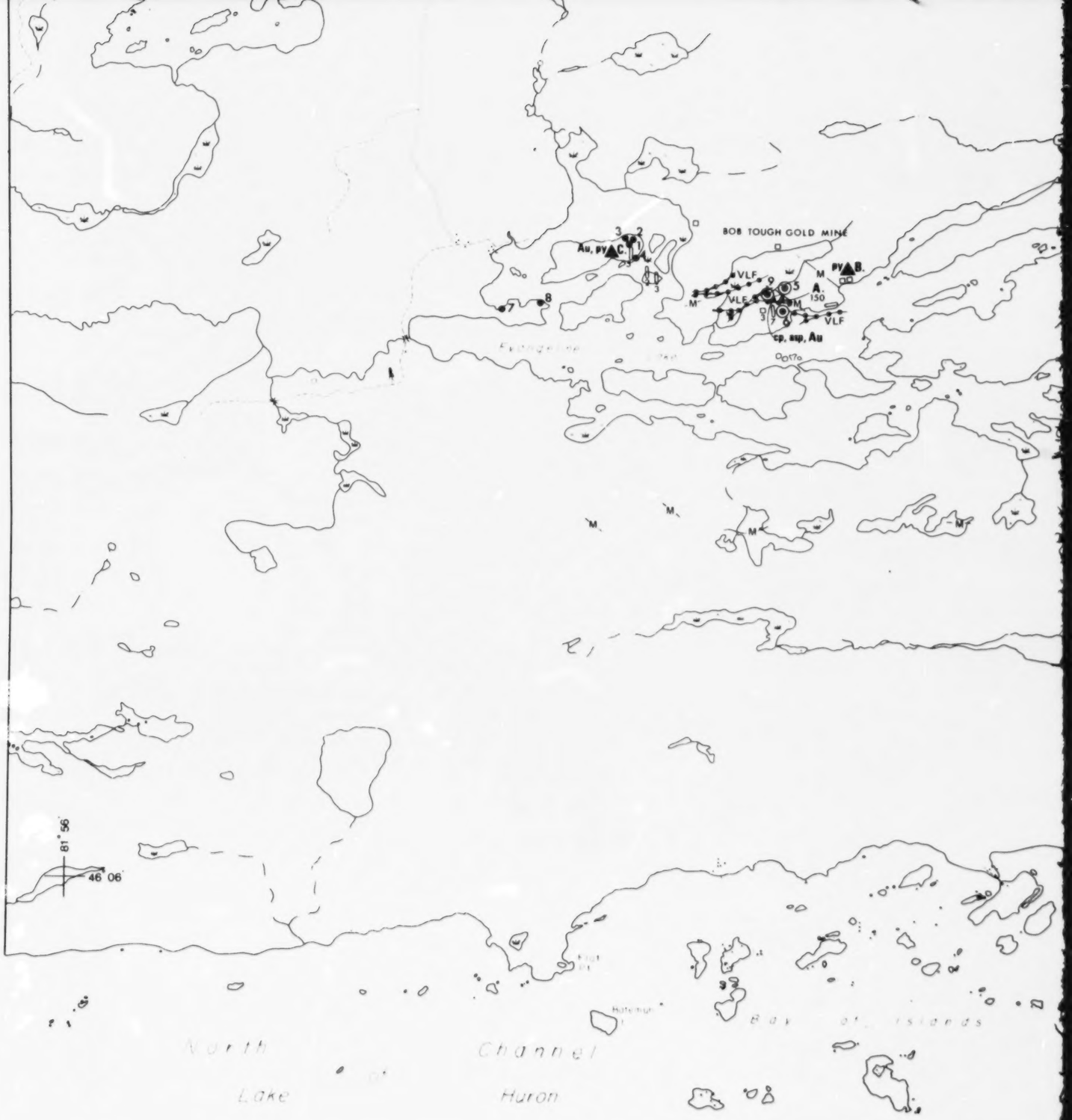
GEOPHYSICAL ANOMALIES

- ☐ AM — Airborne Magnetometer Anomaly
- ☐ Airborne Electromagnetometer Anomaly
  Length of anomaly along flight line
- ☐ Airborne Electromagnetometer Anomaly.
  Location of anomaly along flight line
- ☐ Airborne Electromagnetometer Anomaly
  Conductor Axis: definite, probable, possible
- ☐ ARA — Airborne Radiometric Anomaly
- ☒ M — Ground Magnetometer Anomaly
- ☒ VL — Ground Electromagnetometer Anomaly
  (VL - Vertical Loop; HL - Horizontal Loop;
  VLF - Very low freq; Turam; JEM -
  Crone EM - 16)
- ☐ RA — Ground Radiometric Anomaly
- ☐ IP — Induced Polarization Anomaly
- ☐ SP — Self Potential Anomaly
- ☐ AFMAG — Audio-frequency magnetometer anomaly
  (total intensity)
- ☐ R — Resistivity Anomaly
- ☐ GR — Gravity Anomaly
- ☐

MISCELLANEOUS DATA

- ☒ Trenching, pit
- ☐ Adit
- ☐ Open pit
- ☒ Multiple trenches, pits
- ☐ Rock quarry
- ☐ Sand and/or gravel pit
- ☐

NOTE: Consult the text that accompanies this map for pertinent lists of data, references, and abbreviations.



GEOLOGICAL AND MINING SYMBOLS

TYPES OF DATA SHOWN ON THIS MAP

MINERAL OCCURRENCES

- ☒ cp A. — Mineral occurrence at surface, with reference letter
- ☐ Au A. 64' — Mineral occurrence with shaft, depth given with reference letter
- ☐ Ag ? A. — Mineral occurrence reported but exact location uncertain, with reference letter
- ☐ cp A. — Mineralized Float with reference letter
- ☐ —